

CLAIMS

What is claimed is:

1. A computerized method for adding debugging statements to a computer source code having a plurality of lines of code comprising:

creating an annotated source code;

setting a verbosity level to a predetermined level;

5 traversing through said computer source code by reading and analyzing a portion of said source code at a time, said reading and analyzing comprising:

reading said portion of said source code, said portion

comprising executable statements and comments; and

10 if said portion comprises an executable statement, writing said executable statement to said annotated source code, constructing an output statement comprising at least an indicator of the location of said executable statement within said source code, and writing said output statement to said annotated source code; and

15 causing said annotated source code to be executed in place of said computer source code.

2. The method of claim 1 wherein said indicator of the location of said executable statement comprises:

a file name of said source code; and

a line number of said portion of said source code.

3. The method of claim 1 wherein said computer source code is used with a compiler.

4. The method of claim 1 wherein said computer source code is used with an interpreter.

5. The method of claim 1 wherein said output statement further comprises at least a portion of said executable statement.

6. The method of claim 1 wherein said output statement further comprises at least one variable name and at least one variable value.

7. The method of claim 1 wherein said output statement further comprises a function name.

8. The method of claim 1 wherein said traversing further comprises:

if said portion comprises a comment, analyzing said comment to
determine that said comment contains an embedded verbosity level statement
and setting said verbosity level to the verbosity level defined in said
5 embedded verbosity level statement.

9. A computer program for adding debugging statements to a computer source
code having a plurality of lines of code comprising:

a first routine for creating an annotated source code;

a second routine capable of setting a verbosity level to a predetermined
5 level;

a third routine for traversing through said computer source code by
reading and analyzing a portion of said source code at a time, said reading and
analyzing comprising:

reading said portion of said source code, said portion
10 comprising executable statements and comments; and

if said portion comprises an executable statement, writing said
executable statement to said annotated source code, constructing an
output statement comprising at least an indicator of the location of
said executable statement within said source code, and writing said
15 output statement to said annotated source code; and

wherein said annotated source code may be executed in place of said
computer source code.

10. The computer program of claim 9 wherein said indicator of the location of
said executable statement comprises:

a file name of said source code; and

a line number of said portion of said source code.

11. The computer program of claim 9 wherein said computer source code is used
with a compiler.

12. The computer program of claim 9 wherein said computer source code is used
with an interpreter.

13. The computer program of claim 9 wherein said output statement further comprises at least a portion of said executable statement.
14. The computer program of claim 9 wherein said output statement further comprises at least one variable name and at least one variable value.
15. The computer program of claim 9 wherein said output statement further comprises a function name.
16. The computer program of claim 9 wherein said traversing further comprises:
 - if said portion comprises a comment, analyzing said comment to determine that said comment contains an embedded verbosity level statement and setting said verbosity level to the verbosity level defined in said embedded verbosity level statement.

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